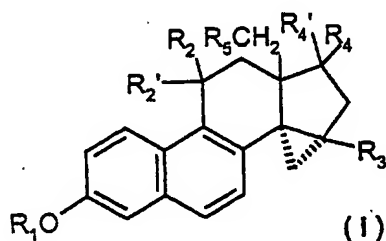


In the Claims:

Please cancel claims 1 to 9 without prejudice and add the following claims 10 to 13:

Claims 1 to 9 (canceled)

10(new). A method of therapeutic treatment of men and women having diseases of organs or tissues treatable by anti-oxidant compounds, said method comprising administering to the person in need thereof an effective amount for said therapeutic treatment of at least one equilenin derivative of formula I:



wherein

R₁ denotes a hydrogen atom, a C₁-C₅-alkyl group, a C₁-C₅-acyl group or a benzoyl group,

R₂ denotes a hydrogen atom and R'₂ denotes a fluorine atom, a

hydroxyl group or a C₁-C₅-acyloxy group or R₂ and R'₂ together

denote an oxo group,

R₃ denotes a hydrogen atom or a methyl group,

R₄ denotes a hydrogen atom and R'₄ denotes a hydroxyl group or a C₁-C₁₁-acyloxy group or R₄ and R'₄ together denote an oxo group, a methylene group, a halomethylene group or a dihalomethylene group and

R₅ denotes a hydrogen atom or a methyl group.

11(new). A method of therapeutic treatment of men and women having diseases of organs or tissues treatable by anti-oxidant compounds, said method comprising administering to the person in need thereof an effective amount for said therapeutic treatment of at least one equilenin derivative selected from the group consisting of:

14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-3, 11 β ,17 β -triol,

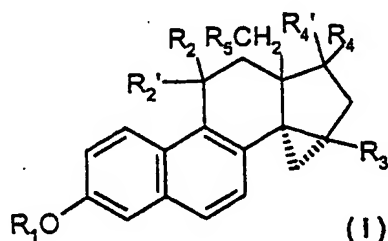
11 β ,17 β -dihydroxy-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-3-yl benzoate,

11 β ,17 β -dihydroxy-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-3-yl propionate,

3,11 β -dihydroxy-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-
 17 β -yl decanoate,
 3,11 β -dihydroxy-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-17-
 one,
 3-methoxy-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-11 α ,17 β -
 diyl diacetate,
 15 β -methyl-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-
 3,11 β ,17 β -triol,
 11 β -fluoro-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-3,17 β -
 diol,
 3,17 β -dihydroxy-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-11-
 one,
 3-methoxy-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-
 11 α ,17 α -diyl diacetate,
 3-methoxy-14 α ,15 α -methylen-11-oxoestra-1, 3, 5(10),6,8-pentaene-
 17 α -yl acetate,
 11 β -hydroxy-17,17-difluoromethylene-14 α ,15 α -methylenestra-1, 3,
 5(10),6,8-pentaene-3-yl benzoate and

14 α ,15 α -methylene-17,17-bis-methyleneestra-1,3,5(10),6,8-pentaene-3,11 α -diol.

12(new). A method of treating brain injuries, spinal column injuries, shock, emphysema, acute respiratory distress syndrome, intoxication injuries, irradiation injuries, burn injuries, transplantation-related immune reactions, stroke, arteriosclerosis, ischemia, CNS diseases, Alzheimer's type senile dementia, asthma or muscular dystrophy in men and women, said method comprising administering to the person in need thereof an effective amount for said treating of at least one equilenin derivative of formula I:



wherein

R₁ denotes a hydrogen atom, a C₁-C₅-alkyl group, a C₁-C₅-acyl group or a benzoyl group,

R_2 denotes a hydrogen atom and R'_2 denotes a fluorine atom, a hydroxyl group or a C_1 - C_5 -acyloxy group or R_2 and R'_2 together denote an oxo group,

R_3 denotes a hydrogen atom or a methyl group,

R_4 denotes a hydrogen atom and R'_4 denotes a hydroxyl group or a C_1 - C_{11} -acyloxy group or R_4 and R'_4 together denote an oxo group, a methylene group, a halomethylene group or a dihalomethylene group and

R_5 denotes a hydrogen atom or a methyl group.

13(new). A method of treating brain injuries, spinal column injuries, shock, emphysema, acute respiratory distress syndrome, intoxication injuries, irradiation injuries, burn injuries, transplantation-related immune reactions, stroke, arteriosclerosis, ischemia, CNS diseases, Alzheimer's type senile dementia, asthma or muscular dystrophy in men and women, said method comprising administering to the person in need thereof an effective amount for said treating of at least one equilenin derivative selected from the group consisting of:

$14\alpha, 15\alpha$ -methylenestra-1, 3, 5(10),6,8-pentaene-3, $11\beta, 17\beta$ -triol,

11 β ,17 β -dihydroxy-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-3-yl benzoate,

11 β ,17 β -dihydroxy-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-3-yl propionate,

3,11 β -dihydroxy-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-17 β -yl decanoate,

3,11 β -dihydroxy-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-17-one,

3-methoxy-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-11 α ,17 β -diyl diacetate,

15 β -methyl-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-3,11 β ,17 β -triol,

11 β -fluoro-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-3,17 β -diol,

3,17 β -dihydroxy-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-11-one,

3-methoxy-14 α ,15 α -methylenestra-1, 3, 5(10),6,8-pentaene-11 α ,17 α -diyl diacetate,

3-methoxy-14 α ,15 α -methylen-11-oxoestra-1, 3, 5(10),6,8-pentaene-
17 α -yl acetate,
11 β -hydroxy-17,17-difluoromethylene-14 α ,15 α -methylenestra-1, 3,
5(10),6,8-pentaene-3-yl benzoate and
14 α ,15 α -methylene-17,17-bis-methyleneestra-1,3,5(10),6,8-
pentaene-3,11 α -diol.